

FIG. 1A

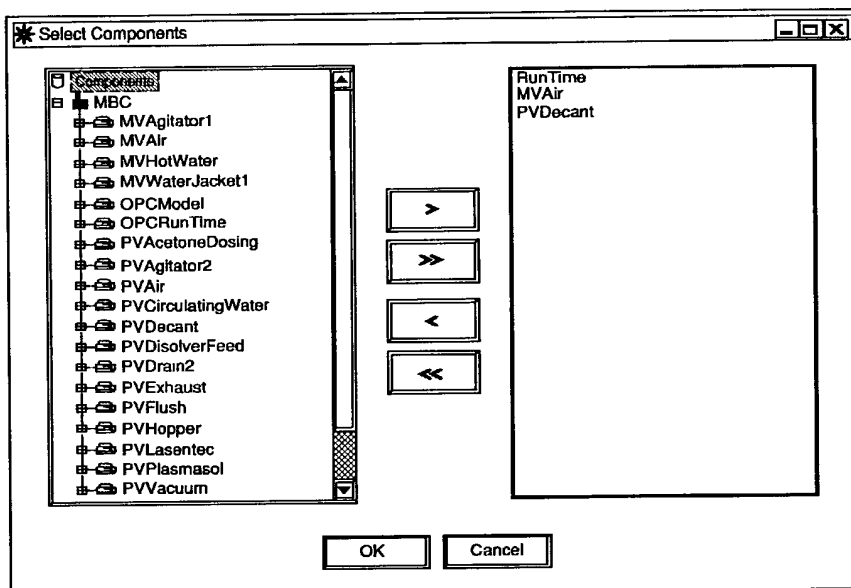
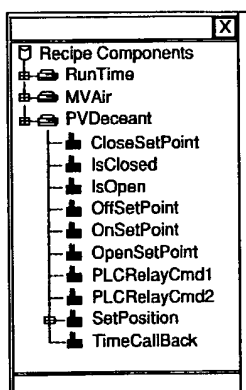


FIG. 3

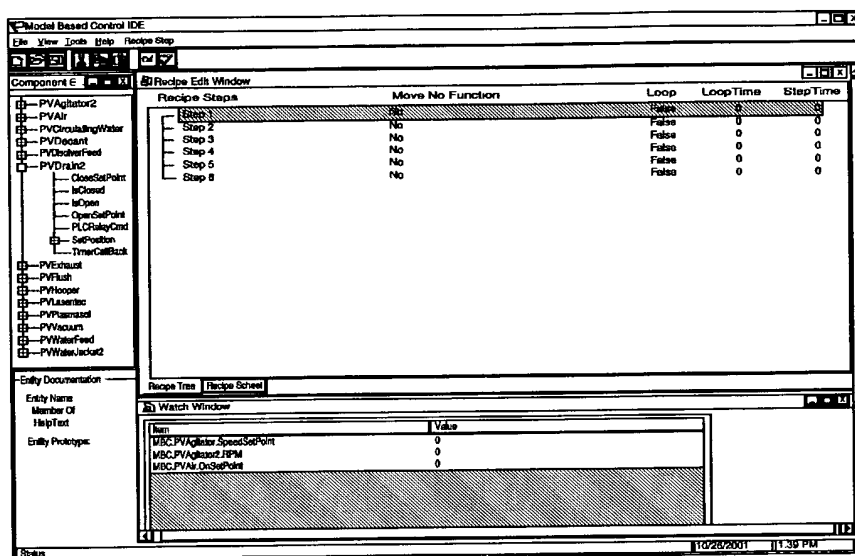


FIG. 4

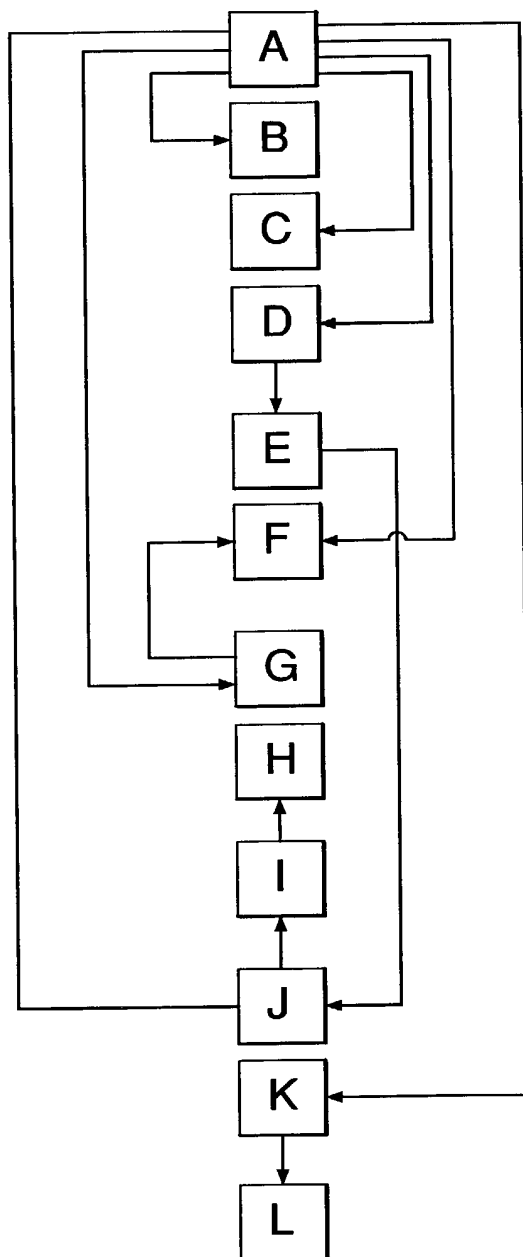


FIG. 5

Recipe View

File Edit Recipe Window Help

Recipe Name

C:\Projects\MBC\Data\recipe First shot - Dave.xls

Recipe State

Waiting for Start

Date/Time

Wednesday, October 24, 2001 - 10:13:14 A

Recipe Step

1

Total Steps

8

Step Time

0

Total Time

0

Recipe Done

False

Keep Alive

True

Move On Function

MVWaterJacket1 Temp >= 58 And PVAgit

Loop

False

Loop Time

1000

Step Time

60000

Recipe Step Commands

PVAgitator2.SetPosition ("On")
PVAgitator2.SetSpeed (80)
PVWaterJacket2.SetPosition ("On")
PVWaterJacket2.SetTemp (30.1)
PVHopper.SetPosition ("Open")
MVAgitator1.SetPosition ("On")
MVWaterJacket1.SetPosition ("On")
MVWaterJacket1.SetTemp (58.1)

Recipe Step Code

```

===== Step 1 =====
binGoOn = False
binRunLoop = True
Do
If binRunLoop Then
Call PVAgitator2.SetPosition ("On")
Call PVAgitator2.SetSpeed (80)
Call PVWaterJacket2.SetPosition ("On")
Call PVWaterJacket2.SetTemp (30.1)
Call PVHopper.SetPosition ("Open")
Call MVAgitator1.SetPosition ("On")
Call MVWaterJacket1.SetPosition ("On")
Call MVWaterJacket1.SetTemp (58.1)
End If

If MVWaterJacket1.Temp >= 58 And PVAgitator2.RPM >= 80 Then binGoOn = TRUE
If not binGoOn Then
Call Sleep (1000)
RunTime.RecipeStepTime = RunTime.RecipeStepTime + 1000
RunTime.RecipeTotalTime = RunTime.RecipeTotalTime + 1000
End If
If RunTime.RecipeStepTime >= 60000 Then binGoOn = True
binRunLoop = False
Loop While Not binGoOn

```

Mode

HMI

Run Recipe

Run Recipe Step

Stop Recipe

Continue Recipe

Cancel/Reset Recipe

Start Data Collector

FIG. 6

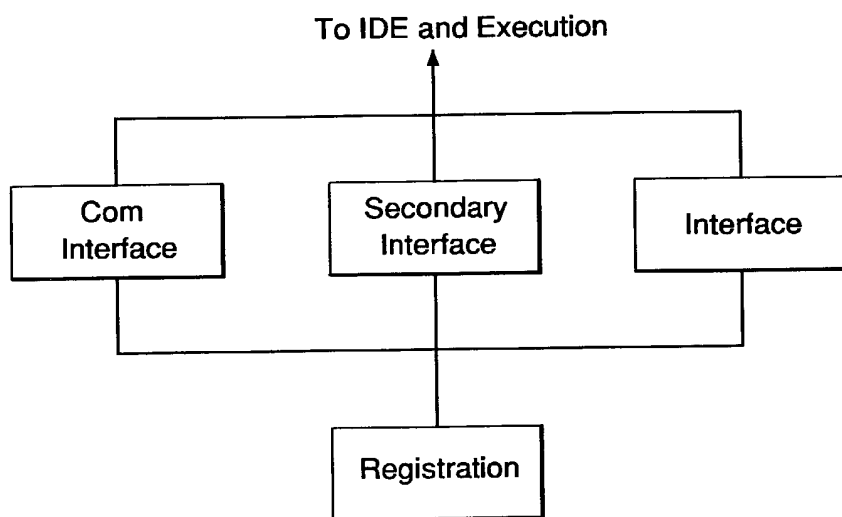


FIG. 9

Library	Component
MBC	PVAgitator2
MBC	PVWaterJacket2
MBC	PVDrain2
MBC	PVWaterFeed
MBC	PVHopper
MBC	PVDecant
MBC	PVDisolverFeed
MBC	PVFlush
MBC	MVAgitator1
MBC	MVWaterJacket1
MBC	PVExhaust
MBC	PVPlasmasol
MBC	PVAir
MBC	PVVacuum
MBC	PVCirculatingWater
MBC	PVAcetoneDosing
MBC	MVAir
MBC	MVHotWater
MBC	PVLasentec
MBC	OPCModel
MBC	OPCRuntime
Recipeinterface	RunTime
Model	TBD

FIG. 10

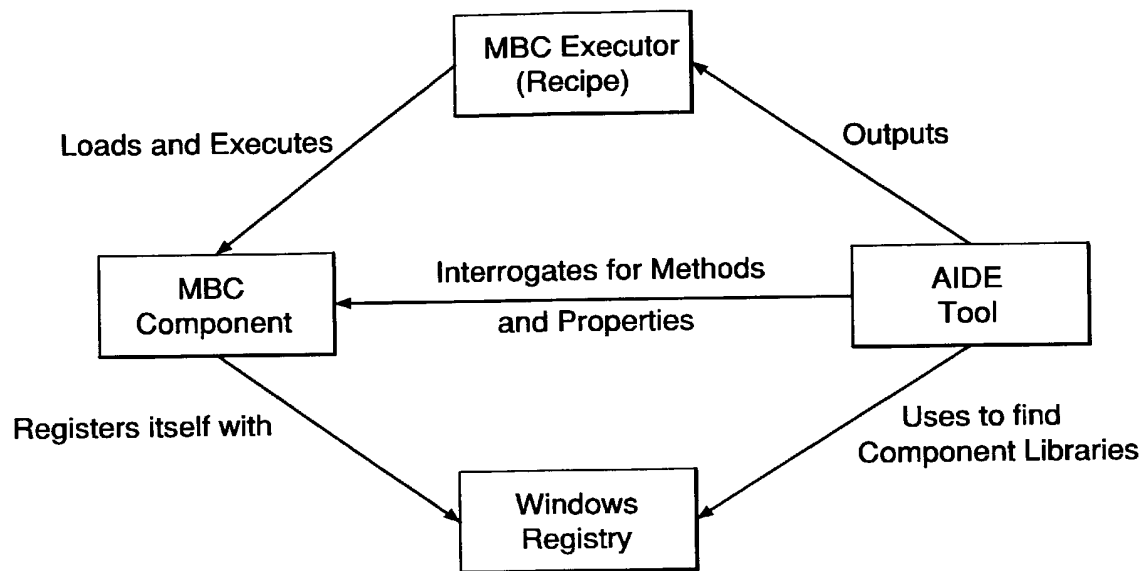


FIG. 11

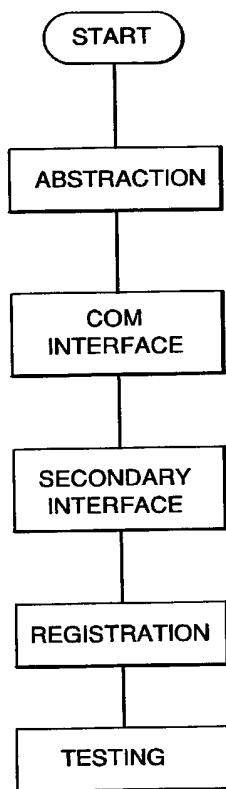


FIG. 12

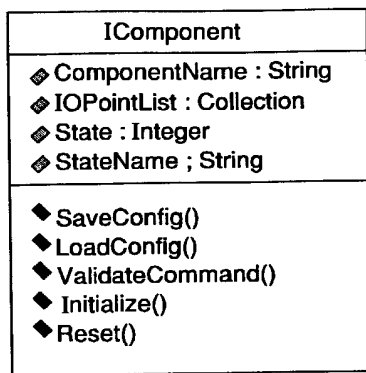


FIG. 13

clsIOPoint
<ul style="list-style-type: none"> ◆ Component : String ◆ Name : String ◆ IOType : String ◆ Tag : String ◆ Handle : Long ◆ Value : Variant ◆ Quality : Long ◆ TimeStamp : Long ◆ ValueRange : String ◆ InitialValve : Variant ◆ CanInitiate : Boolean ◆ ScaleFactor : Double ◆ Threshold : Long
<ul style="list-style-type: none"> ◆ Equals() : Long ◆ IsEqual() : Boolean

FIG. 14

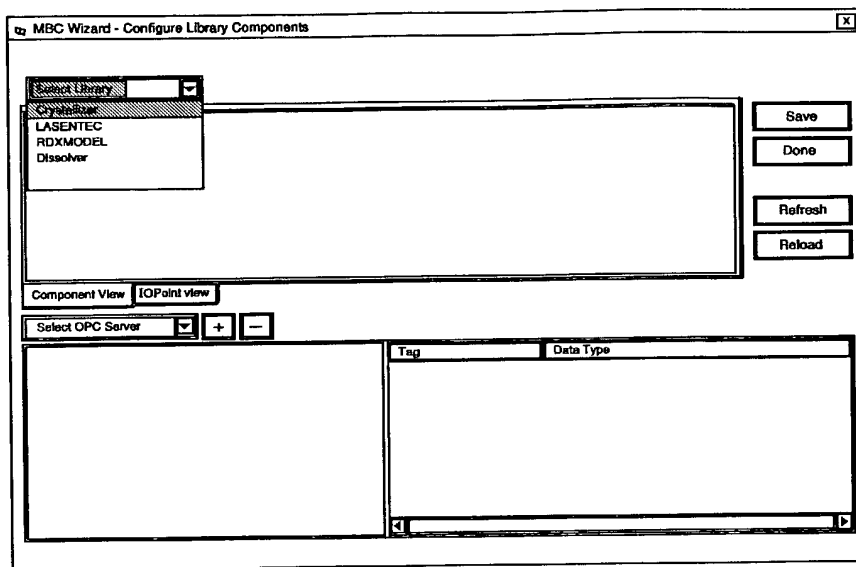


FIG. 15

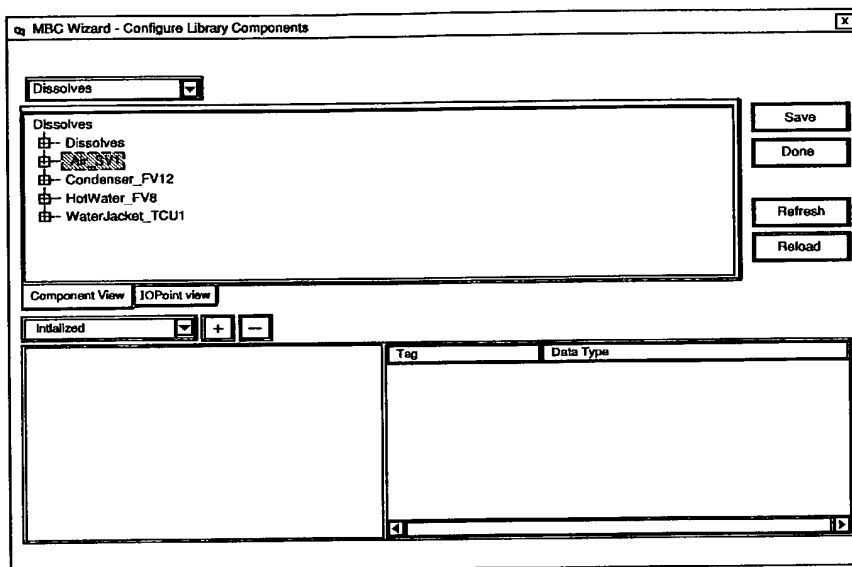


FIG. 16

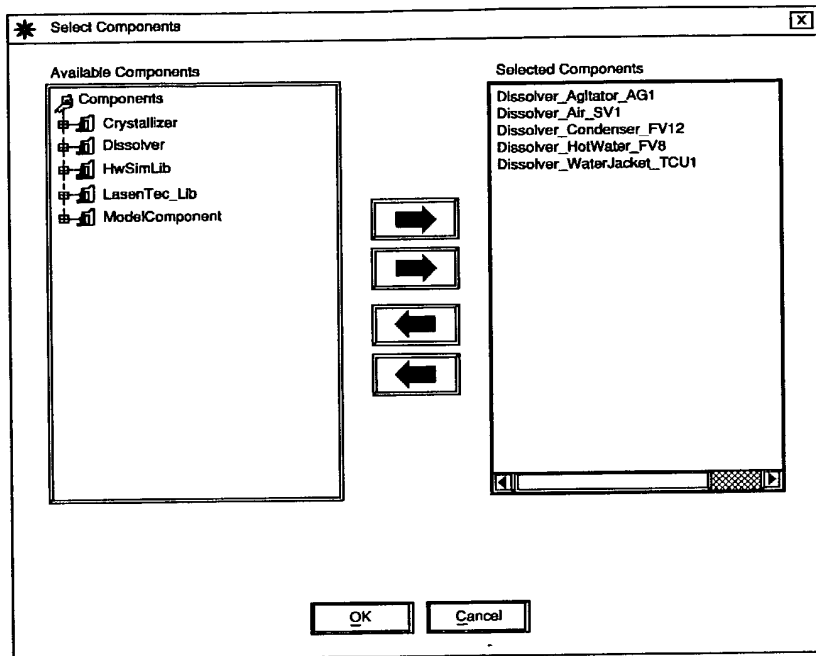


FIG. 17

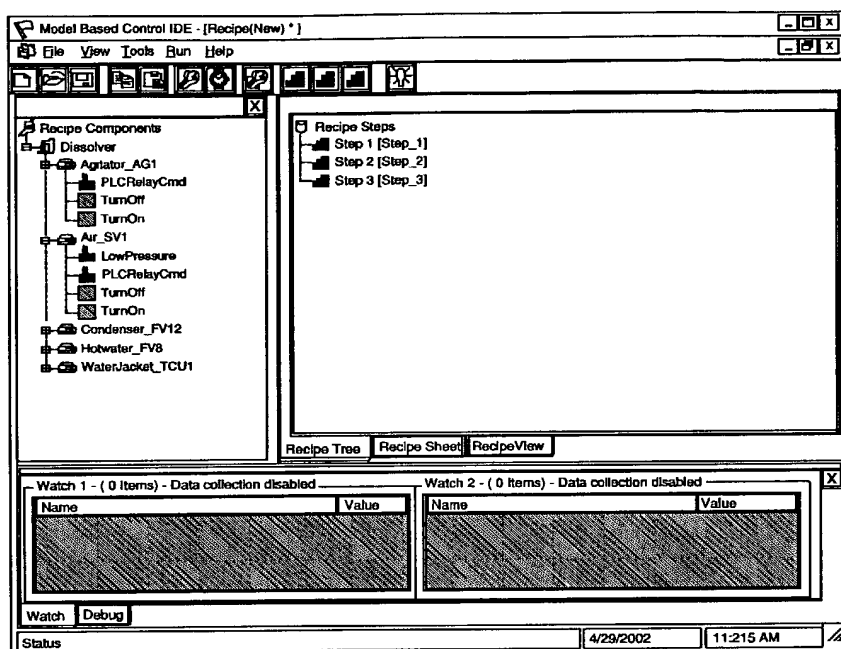


FIG. 18

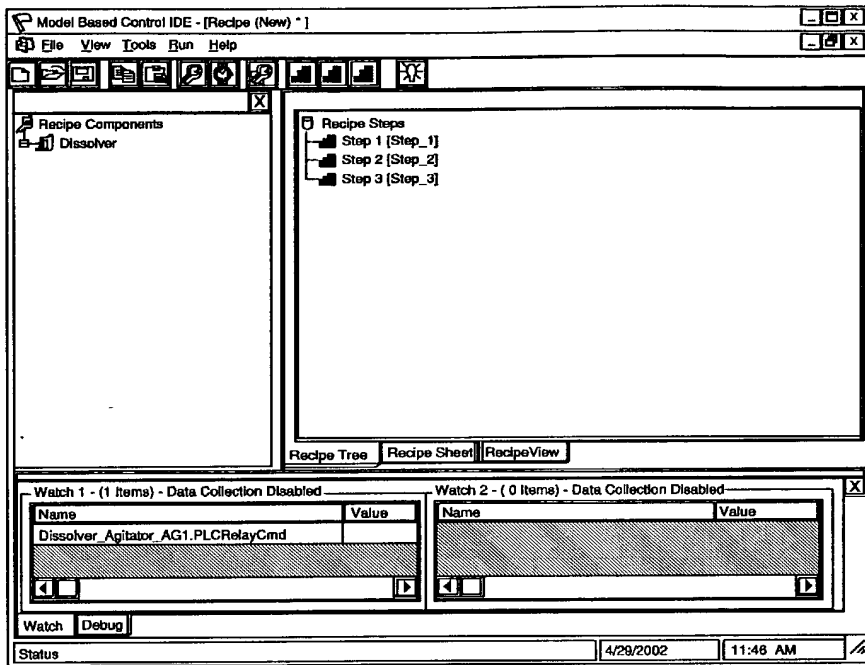


FIG. 19

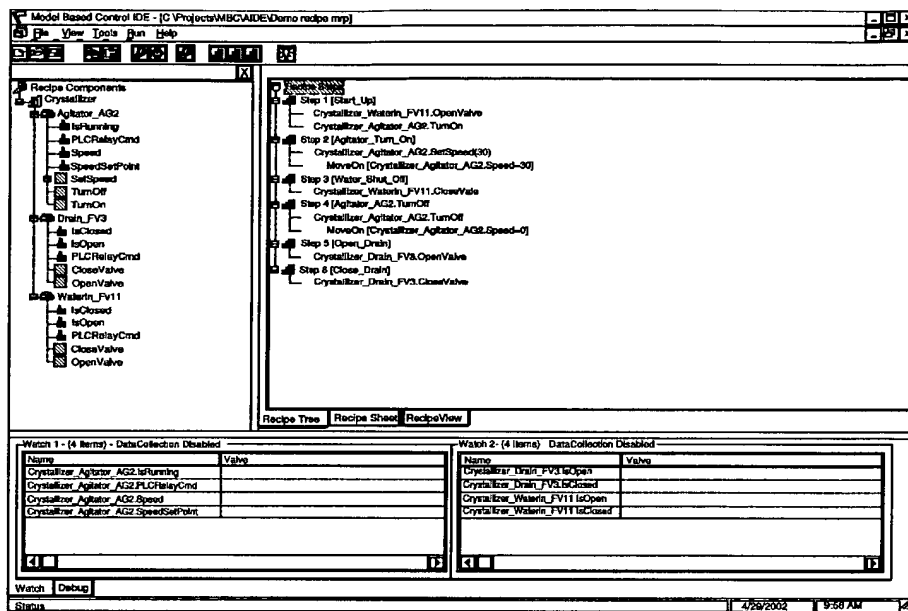
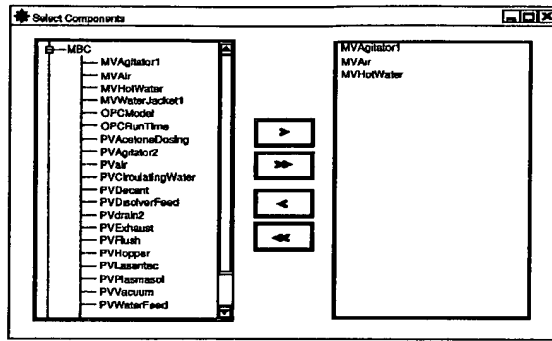


FIG. 21



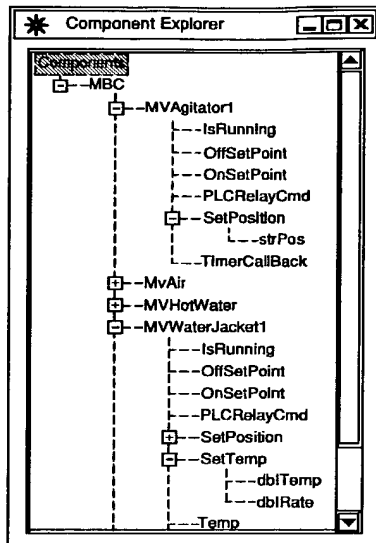


FIG. 23

... ..

Recipe Editor				
Recipe Steps	Move On Function	Loop	LoopTime	StepTime
Step 1	No	False	0	0
Step 2	No	False	0	0
Step 3	PVAgitator2.RPM = 90	False	0	0
PVAgitator2.SetSpeed ("On")				
PVAir.SetPosition ("On")				
Step 4	No	False	0	0
Step 5	No	False	0	0

FIG. 24

Recipe Step Detail

Step No: Description:

☐ Pre-Process Step

☐ Post-Process Step

Component Commands

Component	Commands	
MBC.PVAgitator	SetPosition("ON")	A
MBC.PVAgitator	SetSpeed(10)	V
MBC.PVAir	SetPosition("Open")	

Loop Control

Move On:

Loop Time:

Step Time: Units:

Loop: ☐

FIG. 25